## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

## LISTING OF CLAIMS:

1. (currently amended): An ink jet recording apparatus comprising:

a recording head provided with a pressure generating element;

a scanning mechanism for moving the recording head in a main scanning direction;

a data developer for developing print data into multi-bit jetting data;

a drive signal generator for generating a drive signal including a plurality of drive pulses, on every unit print cycle;

a translator for translating the <u>multi-bit</u> jetting data into pulse select information associated with the respective drive pulses;

a drive pulse supplier for selectively supplying at least one of the drive pulses to the pressure generating element in accordance with the pulse select information to drive the pressure generating element;

a basic recording mode for recording through use of a dot having a size which is selected from one of a plurality of sizes, in a basic unit pixel which is associated with a unit recording area corresponding to the unit print cycle;

a high-resolution recording mode for recording <u>a dot through use of in</u> a fine unit pixel, a plurality of fine unit pixels being arranged within the unit recording area in the main scanning direction; and

a mode selector for selecting one of plural recording modes including the basic recording mode and the high-resolution recording mode,

wherein the data developer develops the print data into the jetting data so as to

indicate the size of the dot to be recorded in the basic unit pixel when the mode selector

selects the basic recording mode; and

wherein the data developer develops the print data into the jetting data such that each

bit therein indicates whether the recording is conducted or not in each associated fine unit

pixel, when the mode selector selects the high-resolution recording mode.

2. (currently amended): The ink jet recording apparatus as set forth in claim 1,

wherein the data developer develops the print data into the jetting data such that bits therein

indicate gradation the size of the dot to be recorded in the unit recording area, when the mode

selector selects the basic recording mode.

3. (original): The ink jet recording apparatus as set forth in claim 1, wherein the

translator is provided with waveform select tables associated with the respective recording

modes:

wherein each of the waveform select table defines a correspondence between the

jetting data and the pulse select information in the associated recording mode; and

wherein the translator translates the jetting data into the pulse select information with

reference to the waveform select table of the recording mode selected by the mode selector.

4. (original): The ink jet recording apparatus as set forth in claim 3, wherein the

waveform select table is rewritable.

4

PRELIMINARY AMENDMENT

Divisional of Appln. No. 09/768,811

Attorney Docket No. Q77106

5. (original): The ink jet recording apparatus as set forth in claim 1, wherein the

mode selector selects the recording mode in accordance with the print data.

6. (original): The ink jet recording apparatus as set forth in claim 1, wherein the

plural drive pulses are of an identical profile.

7. (original): The ink jet recording apparatus as set forth in claim 1, wherein the

plural drive pulses are spaced at constant intervals within the unit print cycle.

8. (original): The ink jet recording apparatus as set forth in claim 1, wherein an

initial trigger for starting the unit print cycle is derived from the scanning mechanism.

Claims 9-37. (canceled)

38. (currently amended): An ink jet recording apparatus comprising:

a recording head provided with a pressure generating element;

a scanning mechanism for moving the recording head in a main scanning direction;

a data developer for developing print data into multi-bit jetting data;

a drive signal generator for generating a drive signal including a plurality of drive

pulses, on every unit print cycle;

a translator for translating the multi-bit jetting data into pulse select information

associated with the respective drive pulses;

5

a drive pulse supplier for selectively supplying at least one of the drive pulses to the pressure generating element in accordance with the pulse select information to drive the pressure generating element;

a basic recording mode for recording through use of a basic unit pixel which is associated with a unit recording area corresponding to the unit print cycle;

a high-resolution recording mode for recording through use of a fine unit pixel, a plurality of fine unit pixels being arranged within the unit recording area in the main scanning direction; and

a mode selector for selecting one of plural recording modes including the basic recording mode and the high-resolution recording mode,

wherein the number of gradation <u>level levels that</u> can be recorded in the basic recording mode is larger than the number of gradation level can be recorded in the high-resolution recording mode.

- 39. (currently amended): ) A control method comprising the steps of: providing an ink jet recording apparatus comprising:
  - a recording head provided with a pressure generating element;
- a scanning mechanism for moving the recording head in a main scanning direction;
- a basic recording mode for recording through use of a basic unit pixel which is associated with a unit recording area corresponding to a unit print cycle; and

a high-resolution recording mode for recording through use of a fine unit pixel, a plurality of fine unit pixels being arranged within the unit recording area in the main scanning direction;

transmitting print data to the recording apparatus;

selecting one of plural recording modes including the basic recording mode and the high-resolution recording mode, in accordance with the print data;

developing the print data inputted into multi-bit jetting data;

generating a drive signal including a plurality of drive pulses, on every unit print cycle;

translating the <u>multi-bit</u> jetting data into pulse select information associated with the respective drive pulses;

supplying selectively at least one of the drive pulses to the pressure generating element in accordance with the pulse select information to drive the pressure generating element,

wherein the print data is developed into the jetting data such that each bit therein indicates whether the recording is conducted or not in each associated fine unit pixel, when the high-resolution recording mode is selected.

40. (currently amended): A computer-readable medium product for program storing a program to control an ink jet recording apparatus comprising:

a recording head provided with a pressure generating element;

a scanning mechanism for moving the recording head in a main scanning direction;

PRELIMINARY AMENDMENT

Divisional of Appln. No. 09/768,811

Attorney Docket No. Q77106

a basic recording mode for recording through use of a basic unit pixel which is

associated with a unit recording area corresponding to a unit print cycle; and

a high-resolution recording mode for recording through use of a fine unit pixel, a

plurality of fine unit pixels being arranged within the unit recording area in the main scanning

direction,

the program executing the steps of:

receiving print data;

selecting one of plural recording modes including the basic recording mode and the

high-resolution recording mode in accordance with the print data;

developing print data into multi-bit jetting data;

generating a drive signal including a plurality of drive pulses, on every unit print

cycle;

translating the multi-bit jetting data into pulse select information associated with the

respective drive pulses;

supplying selectively at least one of the drive pulses to the pressure generating

element in accordance with the pulse select information to drive the pressure generating

element,

wherein the print data is developed into the multi-bit jetting data such that each bit

therein indicates whether the recording is conducted or not in each associated fine unit pixel,

when the high-resolution mode is selected.

8

PRELIMINARY AMENDMENT Divisional of Appln. No. 09/768,811 Attorney Docket No. Q77106

41. (new): An ink jet recording apparatus as set forth in claim 1, wherein both of the recording on the basic unit pixel and the recording on the fine unit pixel are performed by a single movement of the recording head in the main scanning direction.